## CONFIDENTIAL P-185

2 Nay 1955

	-	702	EECORO
Park Town Town	 F-1-1-1		

SULJE:T

: Project Moster: Contract ED 29 s.s.

R.O. F P.63, Bight Landing System, U.V.

1.0.66,7 Para, Para, Transducer, Actuator Index

H.O. 48 15 P-106, Contact Microphone R.C. \$10 P-93, Communication System VLP

R.O. 11 P-155 Recorder Subministure

1.	Time	and	Place	结紧	Meetiz	4: 3	he se	sting	Val	held	at-		
							APT	1 1 <b>97</b> )	ン・ 				
2.	Atte	-dan	e:										

3. Purpose of Martings The meeting was held to review the past wanths work and to outline fature work on all projects.

## 4. Discussions

a. 7-63, Wight Landing System, U.Y.

About a dozen reconditioned autocallimators were field tested et ranges from 2,000 to 2,900 feet using a kon watt mercery are ultra-violet source. The source used had a beam width of more than 909x. The filter used was a Seise Jene UG-4, visable security 29 ft. Dib.

The venther was good and visibility was exactlent. The city A miles distant were clearly visible and did lights of not twinkle.

The authorilizators were visible out to 2,9% feet which however, appeared to be about the useful limit of range. Several autocollimators failed because of lack of proper optical focus. Discussion later disclosed that defocusing was caused by movement of the phosphor target and that this fault had appeared in many of the units before they were reconditioned.

It was recommended that check all of the autocallimators on the 60 cas shake table for 5 minutes in an attempt to determine if such vibration affects focussing. If it appears that a signable

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25X1 25X1

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	1
agreed to deliver 12 preliminary protetypes of a	25X
Rochelle erystal unit as soon as possible. APD will receive a	25/
letter giving the exact date. This is the best unit has	25X1
built to date. A similar unit was shocked with the Buird	20/
amplifier. It was possible to detect speech through a two inch	
weeden door (in a very noisy building) but the speech was not	
intelligible. The signal from the unit easily overrose any	İ
amplifier noise.	
will concentrate on a study of valle, their trans-	25X1
mission and noise characteristics and a correlation of data	25X <sup>2</sup>
on those things with similar data from the literature. An	25/
optimin frequency response ourse vill be determined.	
A cursory examination of other types of transducers than	
crystal will be continued. Of interest are the dynamic,	
variable reluctuate and electronic-mechanical types.	1
Work will recommence about 2 May 1955.	
""	
4. P-93, Communication System VLF.	
	0.5)/
demonstrated a system at a range of 1 mile, CV, 3250	25 <b>X</b> ′
using probe speeds of 100 meters. The transmitter input power	
into the probes was 30 water. Probe impolance was about 30	
obms. Both as receiver and Stoddart Field Strangth Meter	25 <b>X</b> 1
were wood as receivers. Reception was RET 479 with same trouble	
from static burets.	
	25X2
Thereceiver consisted of an r.f. amplifier, a Q-	25/
multiplier, two B-C complet amplifiers and a MO. Its operation	
was very unsatisfactory due to poor construction and design.	
will have completed a complete breatheard system (2	25X <sup>2</sup>
waits) for demonstration on 27 May. The purpose of the	201
demonstration will be to prove out the circuit designs.	25X2
Final pushing and ministurisation is not required.	25/
Annual Annual and Annual Annua	į
e. P-155, Recorder, Subministers.	
is preparing a final report and a new proposal	25X′
as previously directed.	ļ
5. Actions:	
a. will satisfy APD of the results of the subscallimator	25 <b>X</b> ′
Tibratian test.	
	25X1
b. APD will give a shipping address for the indices, P-102,	20/1
P-103.	
Fr. W. W.	
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CONFILENTIAL CONFILE	

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of a centact microphone can be delivered.

d. APD vill obtain a Baird Eit Amplifier for as soon as possible.

e. will complete a VLF breakboard communications system by 27 May 1955.

TES/APD

25X1

25X1

25X1

25X1

Distribution: P-608 - 1 P-102 - 1 P-103 - 1 P-93 - 1 P-109 - 1 P-155 - 1 RAK - 1 Chrono- 1

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